

AMENDMENTS TO THE SPECIFICATION

On page 21, please replace the paragraph beginning at line 33, with the following:

The above equations are implemented in the baseline long-code multiple user detection process ~~118~~ as illustrated in Figure 3. The receiver base-band signal $r[t]$ 122 is input to the rake receiver cards 112 (i.e., one rake receiver for each user) as described above. Each of the rake receivers 112 processes the base-band signal $r[t]$ 122 and outputs the first approximation of the transmitted symbol, $y_k^{(0)}[m]$ 304 for each user k (e.g., user 1 through user K), as well as the estimated amplitude $\hat{a}_{kp}^{(0)}$, time lag $\hat{t}_{kp}^{(0)}$ and user code 306. For ease of notation, here, the superscript refers to the n^{th} regeneration iteration. Hence, for example, $\hat{a}_{kp}^{(0)}$ refers to the base-band because no iterations have been performed.